

**METHODS OF SYNTHESIZING INSULIN POLYPEPTIDE-
OLIGOMER CONJUGATES, AND PROINSULIN POLYPEPTIDE-OLIGOMER
CONJUGATES AND METHODS OF SYNTHESIZING SAME**

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Abstract

Methods for synthesizing proinsulin polypeptides are described that include a contacting a proinsulin polypeptide including an insulin polypeptide coupled to one or more peptides by peptide bond(s) capable of being cleaved to yield the insulin polypeptide with an oligomer under conditions sufficient to couple the oligomer to the insulin polypeptide portion of the proinsulin polypeptide and provide a proinsulin polypeptide-oligomer conjugate, and cleaving the one or more peptides from the proinsulin polypeptide-oligomer conjugate to provide the insulin polypeptide-oligomer conjugate. Methods of synthesizing proinsulin polypeptide-oligomer conjugates are also described as are proinsulin polypeptide-oligomer conjugates. Methods of synthesizing C-peptide polypeptide-oligomer conjugates are also described.

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